

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A network device, comprising:
a core processor and core memory; and
a link integrity module in communication with said core processor,
said link integrity module being powered separately from said core processor and
said core memory;

said network device including a D3 type cold power mode wherein
said link integrity module maintains power;

wherein said network device is at least one of:

a HomePNA device,

a BLUETOOTH device,

a Homeplug device,

a wired device,

a power line device, and

a wireless device.

2. (original) The network device according to claim 1, wherein:
in said D3 type cold power mode, said network device removes
power from said core memory.

3. (original) The network device according to claim 1, wherein:
in said D3 type cold power mode, said network device removes
power from said core processor.

4. (original) The network device according to claim 1, further
comprising:
a network interface.

5. (original) The network device according to claim 1, wherein:
said network device is a HomePNA device.

6. (original) The network device according to claim 1, wherein:
said network device is a BLUETOOTH device.

7. (original) The network device according to claim 1, wherein:
said network device is a Homeplug device.

8. (original) The network device according to claim 1, wherein:
said network device is a wired device.

9. (original) The network device according to claim 8, wherein said
wired device is one of:

a HomePNA device; and
a G.989.1 compliant device.

10. (original) The network device according to claim 1, wherein:
said network device is a power line device.

11. (original) The network device according to claim 10, wherein:
said power line device is a Home Plug device.

12. (original) The network device according to claim 1, wherein:
said network device is a wireless device.

13. (original) The network device according to claim 12, wherein
said wireless device is one of:

a HomeRF device; and
a IEEE 802.11 compliant device.

14. (original) The network device according to claim 1, wherein:
said wireless device is an optical communications network device.

15. (original) The network device according to claim 14, wherein:
said optical communications network device is an Infrared device.

16. (currently amended) A method of maintaining data-based link integrity in a powered down network device, comprising:

providing a link integrity module powered separately from core functionality in said network device; and

removing power from said core functionality of said network device while maintaining power to said separately powered link integrity module

wherein said network device is at least one of:

a HomePNA device,

a BLUETOOTH device, and

a Homeplug device.

17. (original) The method of providing data-based link integrity in a powered down mode according to claim 16, wherein:

said network device is a HomePNA device.

18. (original) The method of providing data-based link integrity in a powered down mode according to claim 16, wherein:

said network device is a BLUETOOTH device.

19. (original) The method of providing data-based link integrity in a powered down mode according to claim 16, wherein:

said network device is a Homeplug device.

20. (currently amended) Apparatus for maintaining data-based link integrity in a powered down network device, comprising:

means for providing a link integrity module powered separately from core functionality in said network device; and

means for removing power from said core functionality of said network device while maintaining power to said separately powered link integrity module;

wherein said network device is at least one of:

a HomePNA device,

a BLUETOOTH device, and

a Homeplug device.

21. (original) The apparatus for providing data-based link integrity in a powered down mode according to claim 20, wherein:

said network device is a HomePNA device.

22. (original) The apparatus for providing data-based link integrity in a powered down mode according to claim 20, wherein:

said network device is a BLUETOOTH device.

23. (original) The apparatus for providing data-based link integrity in a powered down mode according to claim 20, wherein:

said network device is a Homeplug device.

24. (canceled)

25. (canceled)

26. (canceled)

27. (canceled)

28. (canceled)

29. (canceled)